

WX6103与iMC+Drcom配合实现Portal认证功能的典型配置

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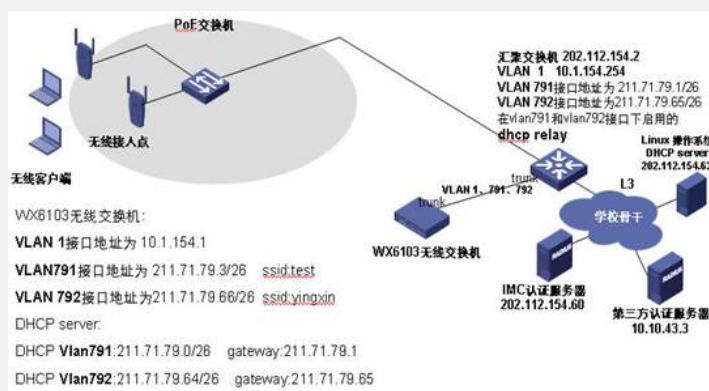
WX6103与iMC+Drcom配合实现Portal认证功能的典型配置

适用与WX6103版本: Comware Software, Version 5.20, Release 2107

一、组网需求:

WX6103、WA2220、H3CPOE交换机、便携机（安装有11b/g无线网卡）、IMC服务器、CAMS服务器、DHCP服务器、汇聚交换机。

二、应用组网图:



无线客户端接入SSID:test属于VLAN 791,网关在汇聚交换机上为211.71.79.1。 无线客户端接入SSID:yingxin为VLAN792,网关在汇聚交换机上为211.71.79.65
IMC服务器地址: 202.112.154.60 (做portal server 和第二个radius server)
第三方服务器地址为: 10.10.43.3 (第一个radius server)
注意: 保证WX6103到IMC、第三方radius服务器路由可达,且注意中间无防火墙将对端口封堵,此典型配置为实际校园组网,为满足SSID:test用户可以访问校园内外网,SSID: yingxin用户只能访问校内网。

三、WX6103的典型配置

version 5.20, Release 2107

```
#  
sysname WX6103  
#  
domain default enable bjtu  
#  
telnet server enable  
#  
portal server h3c ip 202.112.154.60 key h3c url  
http://202.112.154.60:8080/portal  
portal free-rule 0 source any destination ip 211.71.79.0 mask 255.255.255.192  
portal free-rule 1 source any destination ip 211.71.79.64 mask 255.255.255.192  
portal free-rule 3 source any destination ip 202.112.144.236 mask  
255.255.255.255  
portal free-rule 4 source any destination ip 202.112.144.246 mask  
255.255.255.255  
portal free-rule 5 source ip 202.112.144.236 mask 255.255.255.255 destination a  
ny  
portal free-rule 6 source ip 202.112.144.246 mask 255.255.255.255 destination a  
ny  
#  
user-isolation vlan 1 enable  
user-isolation vlan 1 permit-mac 000E-84FA-4C80 000F-E290-A942  
#  
vlan 1  
#  
vlan 791 to 792  
#  
radius scheme bjtu  
primary authentication 10.10.43.3  
key authentication wireless
```

```
user-name-format without-domain
nas-ip 10.1.154.1
radius scheme h3c
primary authentication 202.112.154.60
primary accounting 202.112.154.60
key authentication h3cwireless
key accounting h3cwireless
nas-ip 10.1.154.1
radius scheme wang
primary authentication 127.0.0.1
primary accounting 127.0.0.1
key authentication wang
key accounting wang
nas-ip 172.0.0.1
#
domain bjtu
authentication portal radius-scheme bjtu
authorization portal radius-scheme bjtu
accounting portal none
access-limit disable
state active
idle-cut disable
self-service-url disable
domain h3c
authentication portal radius-scheme h3c
authorization portal radius-scheme h3c
accounting portal radius-scheme h3c
access-limit disable
state active
idle-cut disable
self-service-url disable
domain system
authorization portal radius-scheme wang
accounting portal radius-scheme wang
access-limit disable
state active
idle-cut disable
self-service-url disable
#
local-user 123
password simple 123
service-type lan-access
service-type telnet
local-user h3c
password simple h3c
service-type telnet
level 3
#
wlan rrm
11a mandatory-rate 6 12 24
11a supported-rate 9 18 36 48 54
11b mandatory-rate 1 2
11b supported-rate 5.5 11
11g mandatory-rate 1 2 5.5 11
11g supported-rate 6 9 12 18 24 36 48 54
#
wlan service-template 1 clear
ssid web.wlan.bjtu
bind WLAN-ESS 1
authentication-method open-system
service-template enable
#
wlan service-template 2 clear
ssid yingxin.wlan.bjtu
```

```
bind WLAN-ESS 2
authentication-method open-system
service-template enable
#
interface NULL0
#
interface Vlan-interface1
ip address 10.1.154.1 255.255.255.0
#
interface Vlan-interface791
ip address 211.71.79.3 255.255.255.192
portal server h3c method direct
#
interface Vlan-interface792
ip address 211.71.79.66 255.255.255.192
portal server h3c method direct
#
interface M-GigabitEthernet1/0/1
ip address 192.168.1.1 255.255.255.0
#
interface Ten-GigabitEthernet1/0/1
port link-type trunk
port trunk permit vlan all
#
interface WLAN-ESS1
port access vlan 791
#
interface WLAN-ESS2
port access vlan 792
#
wlan ap 2001 model WA2220-AG
serial-id 210235A29E0083000070
radio 1
service-template 1
service-template 2
radio enable
radio 2
service-template 1
service-template 2
radio enable
#
wlan ap 2sushe model WA2220X-AGP
serial-id 210235A29J0083000159
radio 1
service-template 2
radio enable
radio 2
channel 11
service-template 2
radio enable
#
ip route-static 0.0.0.0 0.0.0.0 10.1.154.254
#
snmp-agent
snmp-agent local-engineid 800063A203000FE290A942
snmp-agent community read public
snmp-agent community write private
snmp-agent sys-info version all
snmp-agent target-host trap address udp-domain 10.1.154.1 params securityname public
snmp-agent target-host trap address udp-domain 202.112.154.60 params securityname public
#
user-interface con 0
```

```

user-interface vty 0 4
authentication-mode scheme
user privilege level 3
#
return

```

四、IMC和第三方radius的配置

1、配置Portal Server.

步骤1、增加IP地址组

增加的ip地址组是指Station接入后获得的IP地址所属的网段，本例中Station获得的IP地址test池是211.71.79.0/26, 所以这里添加的ip地址组就是从211.71.79.0 到211.71.79.63。



本例中Station获得的IP地址yingxin池是211.71.79.65/26, 所以这里添加的ip地址组就是从211.71.79.65到211.71.79.127。



步骤2、配置设备信息

配置设备信息，IP地址：Station连接的WX6103上Wlan-ESS口所属vlan的三层口IP地址。本例中为211.71.79.3和211.71.79.66。

版本：portal 2.0

密钥：WX6103上配置的portal server 的密钥。本例中为“h3c”。



步骤3、配置端口管理信息

主要配置端口组名和IP地址组，IP地址组选择步骤1中创建的IP地址组名。

步骤4、配置生效
配置完毕后，点击系统配置手工生效。

The screenshot shows the '业务配置中心' (Business Configuration Center) interface. In the left sidebar under '接入设备' (Access Device), '接入设备配置' (Access Device Configuration) is selected. The main content area displays a success message: '系统配置手工生效成功' (System configuration manual success). The URL in the address bar is <http://10.153.98.8000/enc/acm/manualAddAccessDevice.srf>.

2. 接入设备配置

在接入设备配置中将接入设备的IP地址加入或者保证设备的管理IP 10.1.154.1添加接入设备地址或者IP范围内10.1.154.0-10.1.154.254包含这个IP地址。

保证添加的接入设备的共享密钥与设备的配置一致，本例中为“h3cwireless”

The screenshot shows the '接入设备配置' (Access Device Configuration) page. Under '接入设备列表' (Access Device List), there is a '手工增加' (Manually Add) button. A modal dialog titled '手工增加接入设备' (Manually Add Access Device) is open, showing the range of IP addresses to be added: '起始IP地址' (Start IP Address) is 10.1.154.1 and '结束IP地址' (End IP Address) is 10.1.154.1. The URL in the address bar is <http://10.153.98.8000/enc/acm/manualAddAccessDevice.srf>.

3. 服务配置

The screenshot shows the '服务配置中心' (Service Configuration Center) interface. In the left sidebar under '接入设备' (Access Device), '接入设备配置' (Access Device Configuration) is selected. The main content area shows the '增加服务配置' (Add Service Configuration) page. It includes fields for '服务名' (Service Name) set to 'test', '安全策略' (Security Policy) set to '不使用安全策略' (No security policy), and '授权信息' (Authorization Information) which specifies '无' (None) for both '接入时段' (Access Period) and '优先级' (Priority). The URL in the address bar is <http://10.153.98.8000/enc/acm/addServiceConfig.srf>.

4. 创建帐户配置

The screenshot shows the '用户管理' (User Management) interface. In the left sidebar under '接入设备' (Access Device), '接入设备配置' (Access Device Configuration) is selected. The main content area shows the '增加用户' (Add User) page. It includes fields for '用户名' (Username) set to '周三', '证件号码' (ID Number) set to '123456', '电话' (Phone) set to '1234567890', and '电子邮件' (Email) set to '123'. The URL in the address bar is <http://10.153.98.8000/enc/acm/addUser.srf>.

为用户帐户创建登录帐号test和yingxin,并指定相应的服务.



五、验证结果

步骤1、连接SSID“test.wlan.bjtu”，自动获取211.71.79.0/26网段的地址。



步骤2、在IE中输入任意IP地址，可重定向到http://202.112.154.60:8080/portal页面，输入用户名和密码后认证成功。此时可以访问学校的内部网络。



当访问公网的地址时,可以弹出和第三方radius的二次计费认证页面, 输入帐号密码认证成功后, 就可以访问互联网。



步骤3、连接SSID“yingxin.wlan.bjtu”，自动获取211.71.79.65/26网段的地址。（不附图）

步骤4、在IE中输入任意IP地址，可重定向到http://202.112.154.60:8080/portal页面

, 输入用户名和密码后认证成功。此时可以访问学校的内部网络。



六、FAQ

- 1、默认情况下，Portal可以让广播报文和组播报文通过，所以未通过认证前Station也可以通过DHCP Server获得IP地址。
- 2、在未通过认证前，Station上线后应可以Ping通portal server。
- 3、如果通过DNS Server获取IP地址后上网，还需增加几条Portal Free规则：
[WX6103]portal free-rule 3 source any destination ip 202.112.144.236 mask 255.255.255
[WX6103]portal free-rule 4 source any destination ip 202.112.144.246 mask 255.255.255
[WX6103]portal free-rule 5 source ip 202.112.144.236 mask 255.255.255.255 des tination any
[WX6103]portal free-rule 6 source ip 202.112.144.246 mask 255.255.255.255 des tination any
- 4、AP和Station要在不同的网段，因为如果AP和Station在同一网段，在此网段启用P ortal认证后会影响AP的注册。